







Claim 11 (Original): The wireless communication system of claim 10 wherein said state of said process stored in said output register is stored in a unique segment of said different memory module, the unique segment of said memory module being determined by an identity of said process.

Claim 12 (Original): The wireless communication system of claim 11 wherein said output register is further used to store a process identifier value that provides said identity of said process.

Claim 13 (Original): The wireless communication system of claim 1 wherein said communication protocol is a code division multiple access (CDMA) protocol.

Claim 14 (Original): The wireless communication system of claim 13 wherein said communication protocol is selected from the group consisting of IS-95 CDMA, IS-95B CDMA, CDMA TIA IS2000, TIA IS 2000A, wideband CDMA (WCDMA), cdma2000, and ARIB WCDMA.

Claim 15 (Original): The wireless communication system of claim 1 wherein said communication protocol is a time division multiple access (TDMA) protocol.

Claim 16 (Original): The wireless communication system of claim 15 wherein said communication protocol is IS-136 TDMA.

Claim 17 (Original): The wireless communication system of claim 1 wherein said ASISP is a finger ASISP and said subset of functions comprises a delay lock loop (DLL) and a channel estimation.

Claim 18 (Original): The wireless communication system of claim 1 wherein said ASISP is a combiner ASISP and said subset of functions comprises a frequency error estimation, a finger energy estimation, and a signal-to-interference (SIR) estimation.

Claim 19 (Original): The wireless communication system of claim 1 wherein each process in said plurality of processes is an echo.

Claim 20 (Original): The wireless communication system of claim 1 wherein each process in said plurality of processes uniquely corresponds to a different mobile hosted by said wireless



















each instruction in said limited purposed instruction set includes an arithmetic logic unit field, a load field, and a load/store field.